

## ABSTRACT OF THE DISCLOSURE

A servo writer which writes a servo signal on a tape by the write head is characterized by being equipped with a pay-off side motor paying off the tape from the pay-off reel by rotating the pay-off reel; a winding side motor winding the tape on the winding reel by rotating the winding reel; a first capstan roller and second capstan roller which are provided at an upstream side and downstream side of the write head, respectively, and by rotating the capstan rollers, run the tape in a state pinched between respective pinch rollers and the capstan rollers; a first tension detecting means which is provided between the first capstan roller and second capstan roller and detects running tape tension; and a capstan roller controlling unit controlling a rotation speed of the first capstan roller and second capstan roller so that tension detected by the tension detecting means becomes constant.